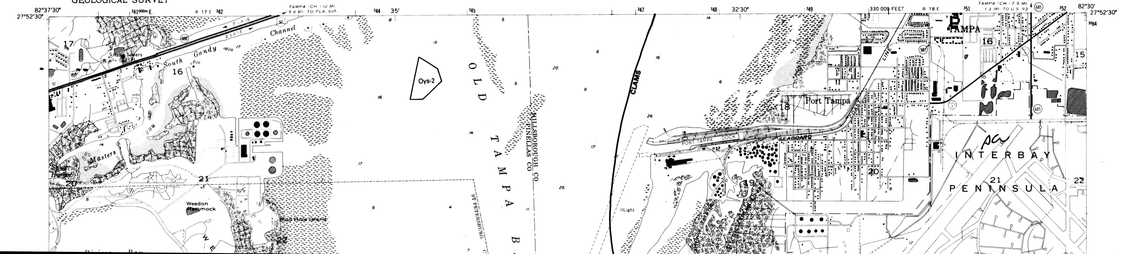
I 49.89/2: 85(15) map A11

I 49.89/2:85(15)map A11

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PORT TAMPA QUADRANGLE
FLORIDA
7.5 MINUTE SERIES (TOPOGRAPHIC)

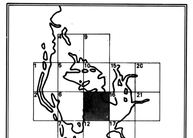


MAP A11

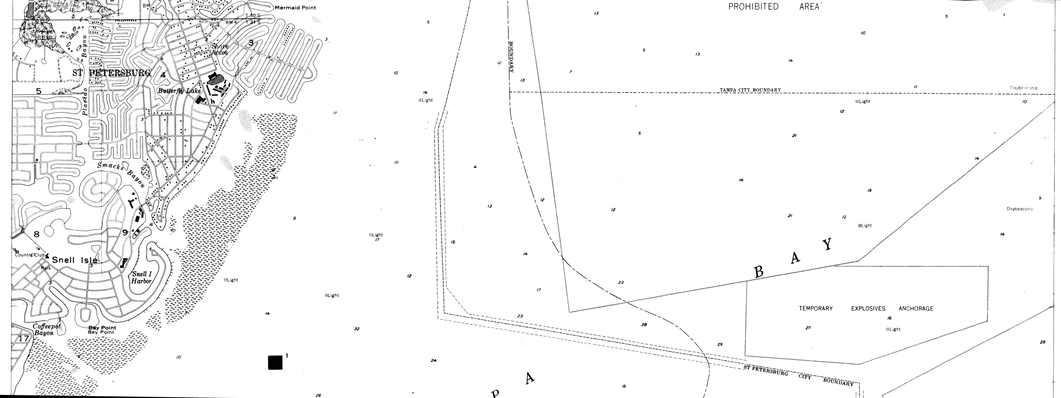
TAMPA BAY ENVIRONMENTAL ATLAS

BIOLOGICAL RESOURCES

PORT TAMPA



TAMPA BAY
Riviera Bay
Weedon Island
Mitchell Creek
Mitchell Cemetery
Mitchell Mound
Weedon Island
Mound
Weedon Island
Cemetery
Mound
Mound
Mound



Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There are no maps A19, A20, A21 due to a lack of data.

LEGEND

SHELLFISH HARVEST AREA
(Florida Dept. of Natural Resources)

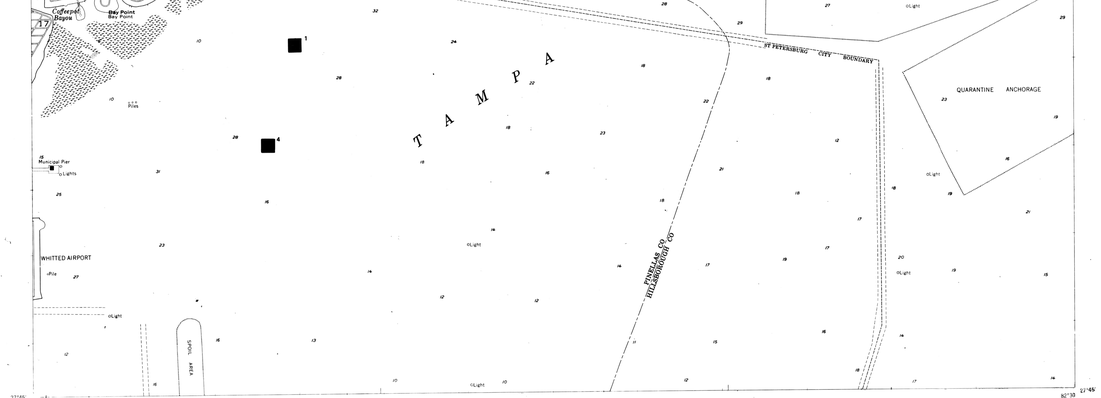
SHA	Shellfish Harvest Approved
SHCA	Shellfish Harvest Conditionally Approved

NOTE: Due to Dept. of Natural Resources (DNR) water quality standards all other estuarine areas are prohibited or unclassified as to shellfish harvest status and are officially unapproved. For further info. on status of harvest areas contact DNR - Shellfish Environmental Assessment Section.

Oys-1	Public Oyster Bed
Oys-2	Private Oyster Bed (Lease)
CLAMS	Clam Bed

FINFISH SPAWNING, NURSERY AND HARVEST AREAS
(Recreational Hook and Line Fishing)

SPECIES #	FINFISH CATEGORY Common Name	SPAWNING LOCATION	SPAWNING SEASON J F M A M J J A S O N D	MAJOR NURSERY HABITATS: SHALLOW AREAS	Seagrass	Mangrove	Marsh	Tidal Flat	Oyster Bar	MAJOR NURSERY HABITATS: DEEP AREAS	Seagrass	Mangrove	Marsh	Tidal Flat	Oyster Bar	MAJOR ADULT HABITATS	Seagrass	Mangrove	Marsh	Tidal Flat	Oyster Bar	OFFSHORE SPAWNING
	ESTUARINE DEPENDENT FISHES																					
1	Spotted Seatrout																					
2	Red Drum																					
3	Snook																					
4	Tarpon																					
5	Striped Mullet																					
6	Pompano																					
7	Sheepshead																					
8	Gray Snapper																					
9	Blue Crab																					
10	Stone Crab																					
11	Spiny Lobster																					
12	Pink Shrimp																					
13	White Shrimp																					
14	Brown Shrimp																					
15	Eastern Oyster																					
16	Hard Clam																					
	ESTUARINE DEPENDENT FISHES																					
17	Bluefish																					
18	Florida Pompano																					
19	Jack Crevalle																					
20	Ladyfish																					
21	Mackerel																					
22	Mullet																					
23	Permit																					
24	Red Snapper																					
25	Sailfish																					
26	Sharks																					
27	Snapper																					
28	Spanish Mackerel																					
29	Tripletail																					
30	Weakfish																					
31	Yellowfin Menhaden																					
	ESTUARINE DEPENDENT FISHES																					
32	Atlantic Croaker																					
33	Black Drum																					
34	Flounder																					
35	Gag																					
36	Grouper																					
37	Hogfish																					
38	Scamp																					
39	Scup																					
40	Sea Bass																					
41	Silver Perch																					
42	Southern Kingfish																					
43	Spot																					
44	Tilefish																					
45	Vermilion Snapper																					
46	Yellowtail																					



(Recreational Hook and Line Fishing)

SPECIES #	FINFISH CATEGORY Common Name	SPAWNING LOCATION	SPAWNING SEASON J F M A M J J A S O N D	MAJOR NURSERY HABITATS: ESTUARY	MAJOR NURSERY HABITATS: BEACH	MAJOR NURSERY HABITATS: OCEAN	MAJOR NURSERY HABITATS: ESTUARY	MAJOR ADULT HABITATS: BEACH	MAJOR ADULT HABITATS: OCEAN	MIGRATION TYPE
	ESTUARINE DEPENDENT FISHES									
1	Red Drum	C	M	●	●		●	●		2
2	Spotted Seatrout	E		●	●		●	●		2
3	Snook	C		●	●		●	●		2
4	Sheepshead	C		●			CS	●	●	1
5	Southern Flounder	C		CE	●		CS	●	●	2
6	Florida Pompano	CS		CE			CS	●	●	3
7	Striped Mullet	CS		●	●		E	●	●	3
8	Gulf Menhaden	C		●	●		CS	●	●	3
9	Spanish Sardine	C		●	●		CS	●	●	3
10	Black Drum	C		●	●		E	●	●	2
	REEF FISHES									
11	Red Grouper	CS		CS,C			CE			2
12	Jewfish	CS		CS,C			CS,C			2
13	Gag Grouper	CS		CS,C			CS,C			2
14	Scamp	CS		CS			CS			2
15	Red Snapper	CS		CS,C			CS,C			2
16	Mangrove Snapper	CS		CE			CE			2
	COASTAL PELAGIC FISHES									
17	King Mackerel	OCS		CS			CS,C			4
18	Spanish Mackerel	CS		CE			CS,C			4

KEY:
E — Estuarine
C — Coastal
CS — Continental Shelf
OCS — Outer Continental Shelf

MIGRATION TYPE:
1 — Residentially Restricted
2 — Random Residential Range
3 — Restricted Migration
4 — Extensive Migration

COLONIAL BIRD NESTING SITE*
Number appearing with symbol indicates colony sites. Colony sites and species composition data are included in the narrative.

Shorebird

Wading Bird

Brown Pelican

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC. IT DESCRIBES AND EVALUATES THE RESOURCES AND THE CONFLICTS AND CONSTRAINTS (USES AND USER REQUIREMENTS) AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE ATLAS, TO DEFINE THE LEGAL BOUNDARIES OF THE BAY OR TO DELINEATE THE JURISDICTION OF BAY FEDERAL STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED DATA, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

Selected areas on this U.S.G.S. base map updated using information extracted from aerial photography. This information not field checked.

PRIMARY SOURCES OF MAPPED INFORMATION:

SHELLFISH HARVEST AREAS: Shellfish Harvest Area Maps, Dept. of Natural Resources, 1982

PUBLIC & PRIVATE OYSTER BEDS: Cooperative Gulf of Mexico Estuarine Inventory and Study, Florida: Michelis, Lindall and Saloa, 1972

CLAMS: Personal Communication, Discussion of Distribution Clams in Tampa Bay and Adjacent Brackish Waters, Mr. L. Tracy Mikkelsen, Florida Sea Grant College Program, Draft Maps. Department of Natural Resources, 1978

SCALLOP BEDS: Personal Communicaoun, Mr. Bill Lyons Dept. of Natural Resources, Marine Research Laboratory, 1982

FINFISH SPAWNING, NURSERY & HARVEST AREAS: Florida's Fishing Grounds, Mss, 1970

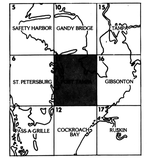
BIRD NESTING SITES: Florida Atlas of Breeding Sites for Herons and Their Allies: Kale, H.W., Maehr, D.S., Beaver, J.C., Kale II, H.W., et.al. U.S. Fish and Wildlife Service, 1982 Personal Communication, Maps and Data, Dr. H.W. Kale II, Florida Audubon Society, 1982

MANATEE HABITAT: Boaters guide to Manatees, the gentle giants, Florida Marine Patrol, 1980.

SEAGRASS BEDS: Tampa Bay Seagrass Maps, 1:10,000 and Tampa Bay Area Seagrass Maps, 1:24,000 Scale, National Wetlands Inventory Maps, 1:24,000 Scale, U.S. Fish and Wildlife Service, 1983

ARTIFICIAL REEFS: Computer Printout of Florida Artificial Reefs, Dept. of Natural Resources, 1982; Artificial Reef Potential Use Reefs in Florida: Artificial and Natural, Florida Sea Grant Program, 1979

FOR COMPLETE REFERENCE SEE MAP NARRATIVE



- Colonial Nesting Waterbirds
- Wood Stork
- Roseate Spoonbill
- White Ibis
- Great White Heron
- Great Egret
- Snowy Egret
- Tricolored Heron
- Little Blue Heron
- Cattle Egret
- Black-crowned Night Heron
- Yellow-crowned Night Heron
- Laughing Gull
- Royal Tern
- Sandwich Tern
- Caspian Tern
- Gull-billed Tern
- Least Tern
- Black Skimmer

Colony sites and species composition data are included in the narrative.

- Shorebird
- Wading Bird
- Brown Pelican
- WEST INDIAN MANATEE HABITAT
- STATE MANATEE SANCTUARY
- SEAGRASS BEDS
- ARTIFICIAL REEF* (Permitted by Florida Dept. of Environmental Regulation)

Numbers next to reefs refer to composition data in narrative

*Symbols appearing with numbers are described more fully in the narrative.

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